## LISTING OF THE CLAIMS

- 1. (Original) A method of generating pseudo-random numbers using a linear feedback shift register in which the correlation between successive pseudo-random numbers is reduced, said method comprising sampling output sequences of said linear feedback shift register with a specified periodicity.
- 2. (Original) The method of Claim 1 wherein said linear feedback shift register generates said output sequences corresponding to maximal length sequences.
- 3. (Original) The method of Claim 1 wherein said specified periodicity is equal to the number of bits output by said linear feedback shift register.
- 4. (Original) The method of Claim 1 further comprising periodically switching between iterative outputs generated by two or more linear feedback shift registers.
- 5. (Original) The method of Claim 3 further comprising periodically switching between iterative outputs generated by two or more linear feedback shift registers.
- 6. (Original) The method of Claim 2 further comprising periodically switching between iterative outputs generated by two or more linear feedback shift registers.
- 7. (Original) A method of generating pseudo-random numbers using linear feedback shift registers in which the correlation between successive pseudo-random numbers is reduced, said method comprising periodically switching between iterative outputs generated by at least a first linear feedback shift register and iterative outputs generated by at least a second linear feedback shift register.

- 8. (Original) The method of Claim 7 wherein said linear feedback shift registers comprise linear shift registers capable of generating maximal length sequences.
- 9. (Original) The method of Claim 7 wherein said pseudo-random numbers are generated with period equal to the sum of each of the individual linear feedback shift register periods.
- 10. (Original) The method of Claim 8 wherein said pseudo-random numbers are generated with period equal to the sum of each of the individual linear feedback shift register periods.
- 11. (Original) A method of encrypting a pseudo-random number generated by a linear feedback shift register comprising operating a nonlinear operator on said pseudo-random number and one or more operands.
- 12. (Original) The method of Claim 11 wherein said nonlinear operator comprises an XOR function.
- 13. (Original) The method of Claim 12 wherein said one or more operands comprises one operand comprising a unique bit sequence corresponding to the LFSR currently used to generate said pseudo-random number.
- 14. (Original) The method of Claim 4 further comprising operating a nonlinear operator on said pseudo-random number and one or more operands.
- 15. (Original) The method of Claim 5 further comprising operating a nonlinear operator on said pseudo-random number and one or more operands.

- 16. (Original) The method of Claim 6 further comprising operating a nonlinear operator on said pseudo-random number and one or more operands.
- 17. (Original) A method of further encrypting a pseudo-random number generated from a linear feedback shift register by using a hashing function comprising:

receiving said pseudo-random number generated from said linear feedback shift register; and

varying the initial value of said hashing function over time by way of a function operating on one or more variables.

18. (Original) The method of Claim 7 further comprising:

receiving said pseudo-random number generated from said linear feedback shift register; and

varying the initial value of said hashing function over time by way of a function operating on one or more variables.

- 19. (Original) The method of Claim 18 wherein said one or more variables comprises the configuration of feedback taps associated with said linear feedback shift register.
  - 20. (Original) The method of Claim 14 further comprising:

receiving said pseudo-random number generated from said linear feedback shift register; and

varying the initial value of said hashing function over time by way of a function operating on one or more variables.

21. (Original) The method of Claim 15 further comprising:

receiving said pseudo-random number generated from said linear feedback shift register; and

varying the initial value of said hashing function over time by way of a function operating on one or more variables.

22. (Original) The method of Claim 16 further comprising:

receiving said pseudo-random number generated from said linear feedback shift register; and

varying the initial value of said hashing function over time by way of a function operating on one or more variables.

- 23. (Withdrawn) An apparatus comprising digital hardware for generating pseudorandom numbers using a linear feedback shift register in which the correlation between successive pseudorandom numbers is reduced.
- 24. (Withdrawn) The apparatus of Claim 23 wherein said digital hardware comprises flip-flops and gates.